

TROUBLE SHOOTING GUIDE

If you've installed and connected the Spitfire/Whitefire as per the instructions listed earlier and it doesn't work properly, use the following table as a guide to fixing the problem. Look up the type of fault in the left column and check the possible causes from the right column.

#	Fault	Possible Causes
1	Red LED not lit	AC supply not connected; or Turned off; or Battery plug not connected to battery pack; or Lamp missing; or Lamp filament damaged; or Lamp head not connected properly; or Test switch damaged
2	Red LED is lit but lamp doesn't come on when test switch is pressed	Lamp damaged; or Lamp not inserted properly; or Battery pack damaged; or Test switch damaged
3	Lamp is lit momentarily when test switch is pressed; or when mains fail	Battery not fully charged (allow up to 24 hours); or Battery pack damaged

If the unit still doesn't work after checking these possible causes, contact Thomas & Betts Service in Australia on 1300 666 595, Monday to Friday, 8.30am to 4.30pm (AEST) and ask for help. Our trained service personnel will usually be able to take your call immediately and assist you in resolving your difficulty. Thomas & Betts is committed to providing valuable Through-Life Support for its products.



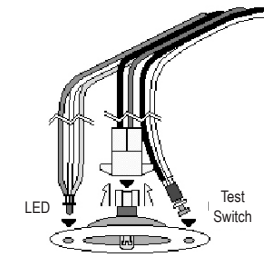
Thomas & Betts

A Member of the ABB Group

Thomas & Betts Australasia. ABN 062 074 810 898
 Head Office: Unit D3, 3-29 Birnie Avenue, Lidcombe NSW 2141, Australia
 Manufacturing: 23a Nyrang Street, Lidcombe NSW 2141, Australia
 Telephone: (+61) 1300 666 595 Facsimile: (+61) 1300 666 594

Spitfire / Whitefire Installation Manual

Contents
Electrical Safety Warning
Installation Instructions
Removal Method
Testing Precautions
Trouble Shooting Guide
Warranty Information (Included)

**GREETINGS**

Congratulations on choosing to use this Thomas & Betts product covered by our unique Through-Life Support system. This document is designed to assist you during the installation of the product, to ensure the safety of yourself and others.

The Spitfire/Whitefire is designed to be installed quickly and easily however, **Thomas & Betts recommends that you read this document thoroughly before commencing installation.** This device has been manufactured to provide trouble free operation for many years, when treated with due care and maintained through regular and appropriate servicing.

SAFETY WARNING

In Australia and New Zealand, only licensed electricians are permitted by law to work with 240 Volt electrical installations.

Do not attempt to install or connect this product unless you are a licensed electrician.

Turn off and isolate the electrical supply before connecting this fitting to the building wires.

Do not touch the terminals of the terminal block when the light fitting is energised.

The only user serviceable parts are the lamp and battery pack.

Do not tamper with the fitting or the warranty will be void.

As the installer, it is your responsibility to ensure compliance with all relevant building and safety codes, (ie: AS3000, AS/NZS2293).

Refer to the applicable standards for data and mains cabling installation procedures and requirements.

INSTALLATION INSTRUCTIONS

To install the Spitfire/Whitefire, follow these steps:

1. Remove the Spitfire/Whitefire from the packing box and inspect it for damage or imperfections. If any damage is found, do not install the Spitfire/Whitefire, replace it carefully into the packing box and notify the Thomas & Betts Product Support Hotline in Australia on 1300 666 595.
2. If all looks okay proceed with the installation, use a pencil to mark the position of the mounting screw holes for the control pack and battery pack.
3. After mounting control and battery pack to their position, connect the lamp head plug assembly to the control pack. Fit the LED and test switch to the lamp head as shown in Figure 1. Fit the quartz halogen QI lamp. Connect the battery plug from control pack (red & black wire) to the battery pack.
Note: The battery pack can also be attached to the control pack with the cable tie supplied.

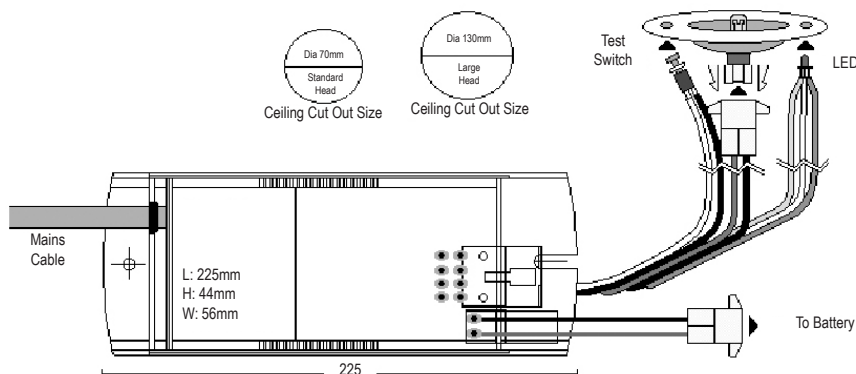


Figure 1: Spitfire/Whitefire Control Pack and Lamp Head Connection Diagram

4. Once mains power is connected, the emergency lamp should not be on as this is a non-maintained fitting. The emergency lamp should only operate when the unswitched active power supply fails or when the manual test button located on the lamp head is operated. The normal status of the Spitfire/Whitefire charge indicator LED is steady red under power on condition. This indicates that the power is connected, the battery is charging and the lamp filament is not open.
5. Check the operation of the fitting to ensure that the installation was successful. When powered up, allow a few minutes to give the battery a small charge, then press the manual test button located at the lamp head. Press and hold the test button for a few seconds and observe that the lamp lights up and stays on until the test switch is released. If the lamp works only momentarily, this ensures that the connections are correct and the battery requires at least 16 hours to fully charge. If the lamp doesn't work at all, check the supply, the connections, and the trouble shooting guide at the end of this document.

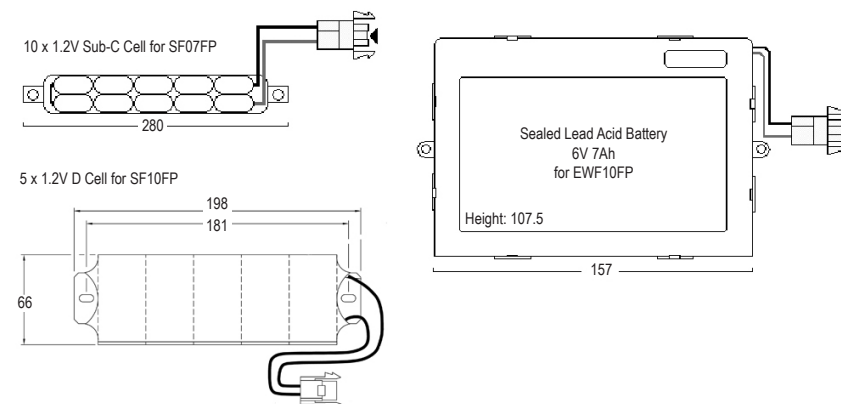


Figure 2: Battery Pack:

10 Sub-C Cell Ni-cad pack for SF07FP

5 D Cell Ni-cad pack for SF10FP

6V 7Ah Sealed Lead Acid Battery for EWF10FP

TO REMOVE INSTALLED UNIT

Before removing the installed Spitfire/Whitefire, switch off the mains supply to the unit. Unplug the power cord from the mains socket/GPO. Disconnect the battery and lamp head plug and then unscrew the mounting screws of the control pack. When the Spitfire/Whitefire is reconnected to the supply, it will need time to recharge its battery before it will be capable of a full length discharge again.

Note: When sending Spitfire/Whitefire for repairs, please ensure that LED, test switch and battery pack are included.

TESTING PRECAUTIONS

If the Spitfire/Whitefire is to be left permanently connected to the mains supply from now on, you will need to allow 24 hours to charge its battery and then you will have to conduct a manual discharge test as per the requirements of AS/NZS2293.2. Presently (at the time of writing), the standard requires that the new fittings operate in emergency mode for at least 2 hours for their first test. Subsequent tests are required every 6 months; fittings are then required to operate for not less than 90 minutes. You will need to keep records of the initial test into the building emergency service logbook.

If the fitting isn't permanently connected to mains supply at this time, you are responsible for giving it the initial 2 hour test when you do connect it permanently to the mains supply.

CONSTRUCTION SITES

Continuously switching on and off the mains supply to the fittings during the installation process (due to building works or for some other reason), could cause the fittings to discharge and charge their batteries many times over a short period which may shorten the life of the battery. Thomas & Betts does not recommend such practices and may not honour any warranty on the life of the batteries or the lamp when subjected to such harsh operating conditions. The fittings are designed to be regularly discharge tested once every 6 months as per AS/NZS2293.2. In order to prevent damage to the battery, leave the unswitched active circuit turned off at the circuit breaker, until the emergency lighting is required on the site.